

FIGURE 1**RTVP and RGL1 α , RGL1 β DNA compare**

| | | |
|--------------|-----|---|
| RTVP-1 | 1 | CTCTGTTTCTCAAAGCTGAAGTCGGCTAGGTTGCAAAGCTGTGGGCTG |
| RGL α | 1 | ----- |
| RGL β | 1 | ----- |
| consensus | 1 | |
| RTVP-1 | 51 | AGCACTCAGGCAATCACACTCTCAGAAACTGCGGCGCTCTGGACTGCAG |
| RGL α | 1 | -----CATCCTCCGCATC-CTCCAC---AT |
| RGL β | 1 | -----CATCCTCCGCATC-CTCCAC---AT |
| consensus | 51 | cAtCctCcGCatC CTccAC At |
| RTVP-1 | 101 | CCTCCCAAGGCTCCATGCCAGACAAAGCATGCGTGTACACACTGCTACAA |
| RGL α | 22 | CCTTCCATGGCTC--TG-----AAGAATAAAATT---CAGTTGTTATG |
| RGL β | 22 | CCTTCCATGGCTC--TG-----AAGAATAAAATT---CAGTTGTTATG |
| consensus | 101 | CCTtCCAtGGCTC TG AAGaATaaaTt CAgTTGtTtAtg |
| RTVP-1 | 151 | TAGCCTGGATGGTTCTTTGTCTCCAATTATTACACACAGCAAATATT |
| RGL α | 60 | GATCTTGGGTC-TGTGTTGGTAGCCACTACATCTTCCA---AAATC-- |
| RGL β | 60 | GATCTTGGGTC-TGTGTTGGTAGCCACTACATCTTCCA---AAATC-- |
| consensus | 151 | gAtCtTGGgTc TgTgTTTgGTagCCAcTacaTCttcCA AAATC |
| RTVP-1 | 201 | TTGCCAGATATCGAAAATGAAGATTTCATCAAAGACTGCGTTCGAATCCA |
| RGL α | 103 | ---CCATCCATCACTGACCCAÇACTTTATAGACAACACTGCATAGAACCCA |
| RGL β | 103 | ---CCATCCATCACTGACCCACACTTTATAGACAACACTGCATAGAACCCA |
| consensus | 201 | CCAtccATCactgAcccAcActTtATagAcaACTGCaTTagaAgCCA |
| RTVP-1 | 251 | TAACAAGTTCCGATCAGAGGTGAAACCAACAGCCAGTGATATGCTATACA |
| RGL α | 150 | CAACGAATGGCGTGGCAAAGTCAACCCTCCCGCGGCCGACATGAAATACA |
| RGL β | 150 | CAACGAATGGCGTGGCAAAGTCAACCCTCCCGCGGCCGACATGAAATACA |
| consensus | 251 | cAACgAaTggCGtggcaAaGTcAAcCCtccCgCggccGAcATGaaATACA |
| RTVP-1 | 301 | TGACTTGGGACCCAGCACTAGCCCAAATTGCAAAAGCATGGCCAGCAAT |
| RGL α | 200 | TGATTTGGATAAAGGTTAGCAAAGATGGCTAAAGCATGGCAAACCAG |
| RGL β | 200 | TGATTTGGATAAAGGTTAGCAAAGATGGCTAAAGCATGGCAAACCAG |
| consensus | 301 | TGAtTTGGGAtaaAGgttTAGCaaAgATgGctAAAGCATGGCaAaCcAg |
| RTVP-1 | 351 | TGCCAGTTTCACATAATACACGGCTGAAGCCACCCCACAAGCTGC-ACC |
| RGL α | 250 | TGCAAATTGAAACATAATGACTGTTGGATAAATCATATAAA-TGCTATG |
| RGL β | 250 | TGCAAATTGAAACATAATGACTGTTGGATAAATCATATAAA-TGCTATG |
| consensus | 351 | TGCaAaTTTgaACATAATgactGttTGgAtaaAtCatAtAAa TGctAtg |
| RTVP-1 | 400 | CAAACTTCACTTCACTGGGAGAGAACATCTGGACTGG--GTCTGTGCCCA |
| RGL α | 299 | CAGCTTTGAATATGTTGGAGAAAATATCTGGTTAGGTGGAATAAAGTCA |
| RGL β | 299 | CAGCTTTGAATATGTTGGAGAAAATATCTGGTTAGGTGGAATAAAGTCA |

consensus 401 CAgctTTtgaatatgTtGGAGAAATATCTGGttaGGtgGaaTaaagtCA

RTVP-1 448 TTTTTCTGTCTTCCGCCATCACAAACTGGTATGACGAAATCCAGGAC
 RGL α 349 TTCACACCAAGACAT--GCCATTACGGCTGGTATAATGAAACCCAATTT
 RGL β 349 TTCACACCAAGACAT--GCCATTACGGCTGGTATAATGAAACCCAATTT
 consensus 451 TTcacaCcaaGaCaT GCCATTACggctGGTATAAtGAAAcCCAatTT

RTVP-1 498 TATGACTTCAAGACTCGGATATGCAAAAAGTCTGTGGCCACTACACTCA
 RGL α 397 TATGATTTGATAGTCTATCATGCTCCAGAGTCTGTGGCCATTATACACA
 RGL β 397 TATGATTTGATAGTCTATCATGCTCCAGAGTCTGTGGCCATTATACACA
 consensus 501 TATGAtTTtgAtAgTCTatcATGCtccAgAGTCTGTGGCCAtTAtACaCA

RTVP-1 548 GGTTGTTGGGCAGATAGTTACAAAGTTGGCTGCCAGTTCAATTTGCC
 RGL α 447 GTTAGTTGGGCCATTCAATTATGTCGGTTGTGCAGTTGCAATGTGTC
 RGL β 447 GTTAGTTGGGCCATTCAATTATGTCGGTTGTGCAGTTGCAATGTGTC
 consensus 551 GtTaGTTGGGCcaATTcaTttAtGTcGGtTGtGCAGTTgcAaTgTgtC

RTVP-1 598 CTAAAGTTCTGGCTTGACGCTTTCCAATGGAGCACATTTATATGC
 RGL α 497 CTAA-----CCTGGGGGAGCTCAACTGCAATA---TTTGTATGC
 RGL β 497 CTAA-----CCTGGGGGAGCTCAACTGCAATA---TTTGTATGC
 consensus 601 CTAA CcTTGggGgagcTTCaAcTGcAatA TTTgTATGC

RTVP-1 648 AACTACGGACCAGGAGGGATTACCCAACTGGCCATATAA---GAGAGG
 RGL α 535 AACTACGGACCTGCAGGAAATTGGCAAATATGCCTCCTACGTAAGAGG
 RGL β 535 AACTACGGACCTGCAGGAAATTGGCAAATATGCCTCCTACGTAAGAGG
 consensus 651 AACTACGGACCTGcAGGAATTttgCAAaTatGCCTccTtAcgtAGAGG

RTVP-1 695 AGCCACCTGCAGTGCCTGCCAATAATGACAAGTGGACAATCTCT
 RGL α 585 AGAATCTTGCTCTCTGCTCAAAAGAAGAGAAATGTGAAAGAACCTCT
 RGL β 585 AGAATCTTGCTCTCTGCTCAAAAGAAGAGAAATGTGAAAGAACCTCT
 consensus 701 AGaatCtTGCTcTctCTGCTCaAAagAaGAgAAatGTgTaaAgAACCTCT

RTVP-1 745 GTGTTAACCGACAGCGAGACCAAGTGAAACGTTACTACTCTGTTGTATAT
 RGL α 635 GCA-----AAAATCCATTCTGAAG
 RGL β 635 GCAGGACTCCACAACCTATTACCTAACCC---AAAATCCATTCTGAAG
 consensus 751 Gca a c acagc g a aa c AaaAtcCatTTcTgaAg

RTVP-1 795 CCAGGCTGGCCATATATCCACGTAACAGATAACACTCTCTTCTCAT
 RGL α 655 CCAACGGGG----AGAGCACCTCAGCAGACAGCCTTAATCCAT-TCAG
 RGL β 682 CCAACGGGG----AGAGCACCTCAGCAGACAGCCTTAATCCAT-TCAG
 consensus 801 CCAacggGG AgAgCacCtcAgCAGAcAgcCTTtaatCcaT TCAG

RTVP-1 845 TGTTAACCTCAGTAATTCTAATACTGTCTGTTATAATTACCAATTGGTAC
 RGL α 699 CTTAGGTTTCTCTGAGAAT--CTTTAATGT---CATTATATAC
 RGL β 726 CTTAGGTTTCTCTGAGAAT--CTTTAATGT---CATTATATAC
 consensus 851 ctTaggTTttcTtcTTCTgAgAaT CTtTTAatgt CATTatATAC

RTVP-1 895 AGCTCAAGTACCCATAATTAGTTCTTTGGACTAATACAATTCAAGGAA-A
 RGL α 744 AAAAGAAATTCTCAAATGT-----TAAAATAAAGGAATA

RGL β 771 AAAAGAAATTCTCAAATGT-----TAAAATAAAGGAATA
consensus 901 AaaagAAaTtCtCaAATgT TAaAATaaAGGAATA

RTVP-1 944 GAAAAAACCAAAAACCAACCTCATTCACATATGGCTTTTT--TTAACC
RGL α 778 GTTTATTGCTTAATATAA--CTTATCATCACTTGCTTCTTACTGAATC
RGL β 805 GTTTATTGCTTAATATAA--CTTATCATCACTTGCTTCTTACTGAATC
consensus 951 GtttAttgCttAAtAtaA CTtATcatCActTtGCTTcTTacTgAAAtC

RTVP-1 992 AATAACAATTAGGTGTACTTCTATTTAAAACATTCAGAAAAAAATA

RGL α 826 TTCTACACTCTTGC---CTGATACCTAAA-----(**SEQ ID NO: 1**)

RGL β 853 TTCTACACTCTTGC---CTGATACCTAA-----(**SEQ ID NO: 3**)

consensus1001 ttctACAcTcttGc CTgaTAccTaAA

FIGURE 2

RTVP-1 and RGL1 α , RGL1 β protein compare

FIGURE 3**RGL 1 p53 binding sites
(Promoter 4kb--intron 4)**

Intron 1

- 581 AAATAAGTTC AAAACT GTACTAGTCT 90% (A)
- Intron 2
- 19 59 AGACTAGTTT CTTCAC ATACATGTTT 95% (B)
- 1559 AAGCCTGTTT AAGCAATATAAA GAGCTAACCT
TCTTCTCT AGACTTACCC 90% (C1, C2)
- 16403 GAGCTTACTC TTTAT TGGCTAGTTT 90% (D)
- Intron 3
- 3116 AGATAAGTCT GA GGTCTTGTCT 90% (E)
- 32226 AGACAAGCCA CCTGG AAGAAAGTCT 90% (F)
- Intron 4
- 35786 AAACAAACTT T AGACAAGTTT 95% (G)
- 36649 TAACTAGTTT GGGTACTAGTAAACC
TGGCATGCC TC AAACTTTTTC 90% (H1, H2)
- 38942 AGACATTCTC TATA AAGCTATTTT 90% (I)

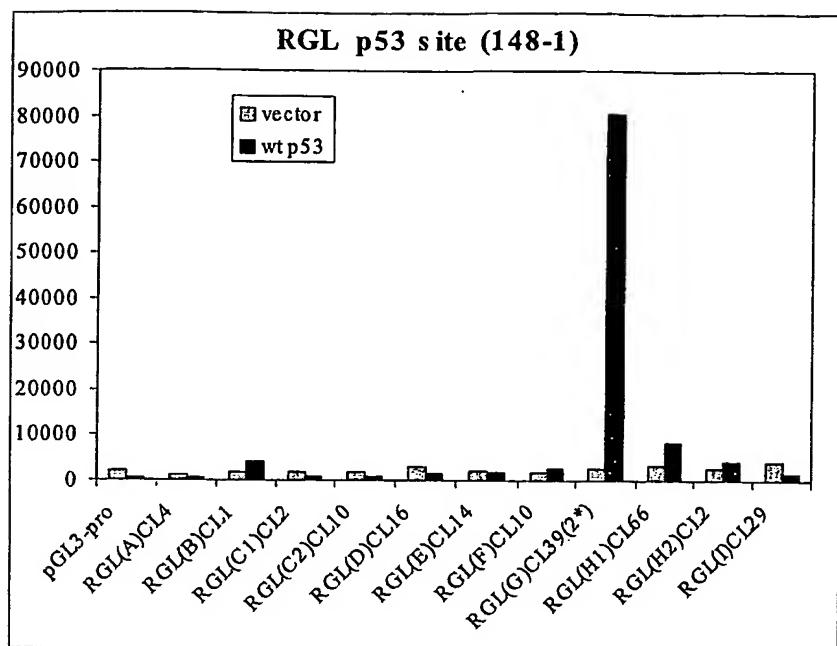
FIGURE 4

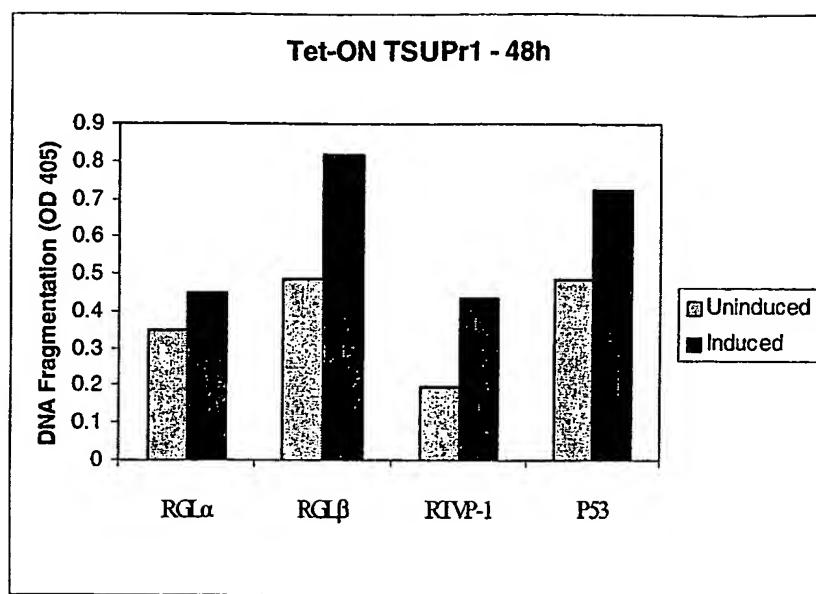
FIGURE 5

FIGURE 6